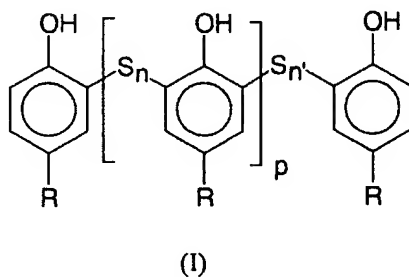


This listing of claims will replace the prior version in the application.

Claims

1. (previously presented) A sulfur-donor vulcanizing agent comprising the combination of:

- 10 to 90% of a product (I) consisting of a mixture of poly(alkylphenol) polysulfides of formula:



in which:

- R is an alkyl radical having 1 to 20 carbon atoms,
- n and n' are two integers that are identical or different, each being greater than or equal to 1 and less than or equal to 8,
- p is an integer between 0 and 50, and
- from 10 to 90% of a compound of formula (II)



in which R' and R'' that are identical or different, each represent a hydrogen atom or an alkyl or aryl radical having 1 to 20 carbon atoms.

2. (previously presented) The vulcanizing agent as claimed in claim 1, characterized in that a product of formula (I) is used in which R is an alkyl radical having 4 to 10 carbon atoms, n and n' are each greater than or equal to 1 and less than or equal to 4, and p is an integer between 0 and 20.

3. (currently amended) The vulcanizing agent as claimed in either of ~~claims 1 or 2~~ claim 1, characterized in that a compound of formula (II) is used in which R' and R'' represent an alkyl radical having 1 to 3 carbon atoms.

4. (currently amended) The vulcanizing agent as claimed in either of ~~claims 1 or 2~~ claim 1, characterized in that the compound II is urea.

5. (currently amended) The vulcanizing agent as claimed in one of ~~claims 1 or 4~~ claim 1, characterized in that a mixture is used of compounds of formula (I) in which R is an alkyl radical having at least one tertiary carbon by which R is linked to the aromatic nucleus.

6. (currently amended) The vulcanizing agent as claimed in claim 5, characterized in that R is a tertio-butyl radical or tertio-pentyl radical.

7. (previously presented) The vulcanizing agent as claimed in claim 6, characterized in that the mixture of compounds of formula (I) is such that the average value of n and n' is approximately 2, and the average value of p is approximately 5.

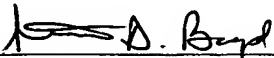
8. (currently amended) A method for vulcanizing ~~an~~ avulcanizable elastomeric composition of the EPDM type presenting no risk relative to formation of nitrosamines, comprising the incorporation of an effective quantity of the vulcanizing agent as claimed in ~~one of claims 1 to 7~~ claim 1 in the vulcanizable elastomeric composition.

9. (previously presented) The vulcanization method as claimed in claim 8, characterized in that the elastomeric composition incorporates as an elastomer one or more terpolymers of ethylene, propylene and ethylidene norbornene.

10. (currently amended) The vulcanization method as claimed in ~~either of claims 8 or 9~~ claim 8, characterized in that the effective quantity of vulcanizing agent is between 0.4 and 6 parts by weight, ~~preferably between 0.8 and 3 parts by weight~~, per 100 parts by weight of elastomer.

11. (new) The vulcanization method as claimed in claim 8, characterized in that the effective quantity of vulcanizing agent is between 0.8 and 3 parts by weight per 100 parts by weight of elastomer.

Respectfully submitted,



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